WE CLAIM:

- 1. An isolated nucleic acid molecule consisting of the nucleotide sequence set forth in SEQ ID NO: 1.
- 2. An isolated nucleic acid molecule which hybridizes, under stringent conditions, to the nucleic acid molecule set forth in SEQ ID NO: 1, and which codes for a tumor rejection antigen precursor, wherein said isolated nucleic acid molecule does not code for a MAGE tumor rejection antigen precursor.
- 3. An isolated molecule which is complementary to the nucleic acid molecule of Claim 1, wherein said molecule is mRNA or DNA.
- 4. A host cell transfected or transformed with the nucleic acid molecule of Claim 1.
- 5. A host cell transfected or transformed with the nucleic acid molecule of Claim 2.
- 6. An expression vector comprising the isolated nucleic acid molecule of Claim 1 operably linked to a promoter.
- 7. An expression vector comprising the isolated nucleic acid molecule of Claim 2 operably linked to a promoter.
- 8. The host cell of Claim 4, wherein said host cell is a mammalian cell which expresses HLA-Cw*1601.
- 9. The host cell of Claim 5, wherein said host cell is a mammalian cell which expresses HLA-Cw*1601.
- 10. The expression vector of Claim 6, further comprising a nucleic acid molecule which codes for HLA-Cw*1601.

- 11. The expression vector of Claim 7, further comprising a nucleic acid molecule which codes for HLA-Cw*1601.
- 12. An expression kit comprising a separate portion of each of:
 - (i) the isolated nucleic acid molecule of Claim 1, and
 - (ii) a nucleic acid molecule which codes for HLA-Cw*1601.
- 13. An expression kit comprising a separate portion of each of:
 - (i) the isolated nucleic acid molecule of Claim 2, and
 - (ii) a nucleic acid molecule which codes for HLA-Cw*1601.
- 14. A method for treating a subject with a disorder characterized by the presence of complexes of HLA molecules and the peptide of SEQ ID NO: 3 on cell surfaces comprising the sequence of SEQ ID NO: 1, comprising administering to said subject an amount of cytolytic T cells specific to complexes of HLA molecules and said peptide, sufficient to alleviate said disorder.
- 15. A method for treating a subject with a disorder characterized by the presence of complexes of HLA molecules and the peptide of SEQ ID NO: 3 on cell surfaces, comprising administering to said subject an amount of an agent which provokes an immune response to complexes of HLA and said peptide, sufficient to

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provoke said immune response against cells presenting said complexes.

16. A method for diagnosing a disorder characterized by the presence of complexes of HLA molecules and the peptide of SEQ ID NO: 3 on cell surfaces, comprising contacting a sample from a subject with an agent specific for a tumor rejection antigen consisting of the amino acid sequence of SEQ ID NO: 3, and determining interaction between said agent and said sequence or said expression product as a determination of said disorder.

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